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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/736,160	12/15/2000	Jung-Kwon Heo	1293.1159	8106
49455 7590 05/14/2007 STEIN, MCEWEN & BUI, LLP 1400 EYE STREET, NW SUITE 300 WASHINGTON, DC 20005			EXAMINER LERNER, MARTIN	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

09/736,160

Applicant(s)

HEO ET AL.

Examiner

Martin Lerner

Art Unit

2626

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 23 April 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1 to 39 and 41 to 51 is/are pending in the application.
- 4a) Of the above claim(s) 9-15, 24-29, 34-39, 41-47 and 50 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1 to 8, 16 to 23, 30 to 33, 48, 49, and 51 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Election/Restrictions

Claims 9 to 15, 24 to 29, 34 to 39, 41 to 47, and 50 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to nonelected inventions, there being no allowable generic or linking claim. Applicants timely traversed the restriction requirement in the reply filed on 29 April 2005.

This application contains claims 9 to 15, 24 to 29, 34 to 39, 41 to 47, and 50 drawn to an invention nonelected with traverse in the reply filed on 29 April 2005. A complete reply to the final rejection must include cancellation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1 to 8, 16 to 23, 30 to 33, 48 to 49, and 51 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claims contain subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventors, at the time the application was filed, had possession of the claimed invention.

The limitations from independent claims 1, 16, 30, 48, and 51 of “wherein the additional data which is reproduced simultaneously with the audio data is modified separately from the audio data” and “wherein the additional data which is reproduced simultaneously with the audio data, is modified separately from the audio data, after the audio data is recorded on the recording units” is new matter because Applicants’ Specification as originally filed does not disclose that the additional data is recorded “after the audio data is recorded” or “is modified separately from the audio data”. Applicants’ Specification does not actually say that the additional data is modified separately from the audio data, and after the audio data is recorded. Applicants’ Specification, Page 1, Line 22 to Page 2, Line 2, says that the additional data can be reproduced simultaneously with the audio data in the prior art, but can’t be recorded after the audio data in the prior art, and cannot be modified or deleted separately. Applicants’ Specification, Page 2, Lines 7 to 16, says the additional data can be edited, but does not say that any editing is *after* the audio data is recorded, or that the additional data is modified separately. Similarly, Applicants’ Specification, Page 5, Line 17 to Page 6, Line 22, says that the audio data and additional data can be recorded together, but it is difficult to add or modify audio data or additional data, so that the additional data is recorded as a separate, independent pack, and modification and editing of the additional data can be easily done, and that the additional data is modified and edited together with the audio data.

Applicants’ Specification says that the additional data may be recorded separately, but not necessarily after the audio data is recorded, and not necessarily

modified separately. The Specification may imply that the modification and editing is *after* the audio data is recorded, but it is maintained that there is no express disclosure that the additional data is modified separately and edited after the audio data is recorded. Moreover, Applicants' Specification, in fact, says that the additional data and audio data may be modified and edited together, not separately. Conceivably, the additional data could be modified and edited at the same time that the audio data is edited, then combined with the audio data from a separate recording medium as an intermediate recording format in a computer memory, and finally copied onto a compact disk in an audio pack format. Thus, the limitation that the additional data is modified separately from the audio data, and after the audio data is recorded, represents new matter.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1 to 7, 16 to 22, and 48 to 49 are rejected under 35 U.S.C. 103(a) as being unpatentable over *Tanaka et al.* in view of *Miller et al.* ('685).

Concerning independent claim 1, *Tanaka et al.* discloses a recording medium, comprising:

“predetermined recording units recorded on the recording medium, each recording unit having audio data recorded” – cells N (“predetermined recording units”) have audio streams recorded in audio packs A (“audio data recorded”) (column 17, lines 22 to 25: Figures 13, 19, 48, and 49);

“data packs designated to store additional data relating to the audio data, each of the data packs being recorded in predetermined locations in corresponding ones of the recording units of the audio data” – the first pack in each ACB unit ACBU is an audio control pack A-CONT; an audio control pack A-CONT in each ACB unit ABCU in a DVD-Audio is located at a place corresponding to a third pack in a VCB unit VCBU (column 17, lines 22 to 37: Figures 13, 19, 48, and 49); a control audio pack A-CONT is a data pack “designated to store additional data related to the audio data”; an audio control pack A-CONT has headers, audio character display (ACD) information, audio search data (ASD), and substream identification information (column 18, lines 11 to 22: Figure 15).

Concerning independent claim 1, the only element omitted by *Tanaka et al.* is the limitation of “wherein the additional data which is reproduced simultaneously with the audio data, is modified separately from the audio data, after the audio data is recorded on the recording units.” However, *Miller et al.* (‘685) teaches a method and system for automatic editing of recorded video elements synchronized with a script text read or displayed, where a video program has video and audio elements that are time synchronized with a script to be read by an announcer while the recorded elements are being played. (Column 3, Lines 36 to 55) Ultimately, educational and entertainment

programs produced by the editing system are presented on a recording medium of a CD ROM. (Column 6, Lines 59 to 64; Column 7, Lines 36 to 39) An editing server 42 includes a disk storage capacity, where incoming digital video signals are compressed before being saved on the editing server disk, and another server 58 may be configured to store textual material, such as scripts, to be edited on the editing server computer 20. (Column 9, Lines 11 to 55: Figure 1) Video clips are linked to the script text by a control link, which are dynamic links. (Column 13, Lines 52 to 61) However, after the editing is completed, both the video, including images and audio elements, and the text are stored together on CD ROM. Thus, *Miller et al.* ('685) suggests additional data, *i.e.* text scripts, that is reproduced simultaneously with audio data, *i.e.* a video program with video and audio elements, but the text scripts can modified separately from the video program, after the video program is already recorded. An objective is to permit a program editor to incorporate the timing of scene changes with specific points in a script to create a television news story. (Column 1, Lines 10 to 42) It would have been obvious to one having ordinary skill in the art to provide additional data that is reproduced simultaneously with audio data, but is modified separately and after the audio data is recorded as taught by *Miller et al.* ('685) as recorded in a data pack format of *Tanaka et al.* for a purpose of permitting a program editor to incorporate the timing of scene changes to create a television news story.

Concerning independent claim 16, *Tanaka et al.* discloses a reproducing method, further comprising:

“reading data from the recording medium” – a player operates on a DVD-Audio 1; drive unit 2 reads out a signal from the DVD-Audio 1 (column 57, lines 1 to 28: Figure 94);

“reproducing the audio data and the additional data, after relating the additional data to the audio data” – drive unit 2 includes a demodulator, and outputs the demodulation-resultant signal to the reproduced signal processing unit 17 as a reproduced signal (column 57, lines 22 to 28: Figure 94); reproduced information includes real-time information as audio character display (ACD) information (“reproducing . . . the additional data”), which is related to the audio data (column 58, lines 21 to 34: Figure 94).

Concerning independent claim 16, the only element omitted by *Tanaka et al.* is the limitation of “wherein the additional data which is reproduced simultaneously with the audio data is modified separately from the audio data.” However, *Miller et al.* (‘685) teaches a method and system for automatic editing of recorded video elements synchronized with a script text read or displayed, where a video program has video and audio elements that are time synchronized with a script to be read by an announcer while the recorded elements are being played. (Column 3, Lines 36 to 55) Ultimately, educational and entertainment programs produced by the editing system are presented on a recording medium of a CD ROM. (Column 6, Lines 59 to 64; Column 7, Lines 36 to 39) An editing server 42 includes a disk storage capacity, where incoming digital video signals are compressed before being saved on the editing server disk, and another server 58 may be configured to store textual material, such as scripts, to be

edited on the editing server computer 20. (Column 9, Lines 11 to 55: Figure 1) Video clips are linked to the script text by a control link, which are dynamic links. (Column 13, Lines 52 to 61) However, after the editing is completed, both the video, including images and audio elements, and the text are stored together on CD ROM. Thus, *Miller et al.* ('685) suggests additional data, *i.e.* text scripts, that is reproduced simultaneously with audio data, *i.e.* a video program with video and audio elements, but the text scripts can modified separately from the video program, after the video program is already recorded. An objective is to permit a program editor to incorporate the timing of scene changes with specific points in a script to create a television news story. (Column 1, Lines 10 to 42) It would have been obvious to one having ordinary skill in the art to provide additional data that is reproduced simultaneously with audio data, but is modified separately and after the audio data is recorded as taught by *Miller et al.* ('685) as recorded in a data pack format of *Tanaka et al.* for a purpose of permitting a program editor to incorporate the timing of scene changes to create a television news story.

Concerning independent claim 48, *Tanaka et al.* discloses a reproducing method, further comprising:

“reading the predetermined recording units” – a player operates on a DVD-Audio 1; drive unit 2 reads out a signal from the DVD-Audio 1 (column 57, lines 1 to 28: Figure 94);

“demultiplexing the predetermined units to separate the audio data from data packs having the additional data based upon the data packs being in a predetermined

Art Unit: 2626

location in the corresponding recording unit relative to a beginning of the recording unit” – the reproduced signal processor circuit 17 includes an audio and RTI pack detector 9 which receives the reproduced signal from the drive unit 2, and detects audio packs A and real-time information packs RTI in the reproduced signal (column 57, line 58 to column 58, line 34: Figure 94); real-time information packs RTI are “data packs having additional data”; still-picture detector 3 detects video packs V and still-picture packs SPCT, and audio and RTI detector 9 detects audio packs A and RTI packs; implicitly, detecting still picture, video, audio, and RTI packs involves “demultiplexing the predetermined units to separate the audio data from data packs having additional data” (column 57, lines 29 to 67: Figure 94); the first pack in each ACB unit ACBU is an audio control pack A-CONT; an audio control pack A-CONT in each ACB unit ABCU in a DVD-Audio is located at a place corresponding to a third pack in a VCB unit VCBU (column 17, lines 22 to 37: Figures 13, 19, 48, and 49); an audio control pack A-CONT has headers, audio character display (ACD) information, audio search data (ASD), and substream identification information (column 18, lines 11 to 22: Figure 15); A-CONT control packs are placed in a first or third position of an ACBU or VCBU, which is “a predetermined location in the corresponding recording unit relative to a beginning of the recording unit”.

Concerning independent claim 48, the only element omitted by *Tanaka et al.* is the limitation of “wherein the additional data which is reproduced simultaneously with the audio data is modified separately from the audio data.” However, *Miller et al.* (‘685) teaches a method and system for automatic editing of recorded video elements

Art Unit: 2626

synchronized with a script text read or displayed, where a video program has video and audio elements that are time synchronized with a script to be read by an announcer while the recorded elements are being played. (Column 3, Lines 36 to 55) Ultimately, educational and entertainment programs produced by the editing system are presented on a recording medium of a CD ROM. (Column 6, Lines 59 to 64; Column 7, Lines 36 to 39) An editing server 42 includes a disk storage capacity, where incoming digital video signals are compressed before being saved on the editing server disk, and another server 58 may be configured to store textual material, such as scripts, to be edited on the editing server computer 20. (Column 9, Lines 11 to 55: Figure 1) Video clips are linked to the script text by a control link, which are dynamic links. (Column 13, Lines 52 to 61) However, after the editing is completed, both the video, including images and audio elements, and the text are stored together on CD ROM. Thus, *Miller et al.* ('685) suggests additional data, *i.e.* text scripts, that is reproduced simultaneously with audio data, *i.e.* a video program with video and audio elements, but the text scripts can modified separately from the video program, after the video program is already recorded. An objective is to permit a program editor to incorporate the timing of scene changes with specific points in a script to create a television news story. (Column 1, Lines 10 to 42) It would have been obvious to one having ordinary skill in the art to provide additional data that is reproduced simultaneously with audio data, but is modified separately and after the audio data is recorded as taught by *Miller et al.* ('685) as recorded in a data pack format of *Tanaka et al.* for a purpose of permitting a program editor to incorporate the timing of scene changes to create a television news story.

Concerning claims 2 and 17, *Tanaka et al.* discloses audio packs A and audio control packs A-CONT in each ACB unit ACBU (column 17, lines 22 to 25: Figures 13, 19, 48, and 49); audio packs A have recorded audio data, and audio control packs A-CONT are recorded separately with audio control information.

Concerning claims 3 and 18, *Tanaka et al.* discloses audio packs A and audio control packs A-CONT in each ACB unit ACBU (column 17, lines 22 to 25: Figures 13, 19, 48, and 49); audio control packs A-CONT do not contain any audio data that is reproduced, as audio control packs A-CONT contain only control information; control data need not be audibly or visually reproduced, so it is “additional data” that “does not have . . . to be reproduced” with audio data from audio packs A.

Concerning claims 4, 5, 19, and 20, *Tanaka et al.* discloses that control data may be real-time information, so audio control packs A-CONT correspond to real-time information packs RTI (column 57, line 58 to column 58, line 34: Figure 94); real-time information includes audio character display (ACD) information, which is displayed (column 58, lines 21 to 34); audio character display (ACD) information is text describing a tune name (column 18, lines 11 to 39: Figures 15 and 16); audio search data (ASD) synchronizes a present time to an absolute time of a related title (column 18, lines 11 to 39: Figures 15 and 16; column 19, lines 11 to 35: Figure 18).

Concerning claims 6 and 21, *Tanaka et al.* discloses each audio control pack A-CONT stores managing information representing a title and a play time (column 20, lines 10 to 19); audio search data (ASD) has playback time of a related track and an

absolute time of the related title (column 19, lines 11 to 35: Figure 18); real-time information is read from real-time information packs RTI to display audio character display information (column 58, lines 21 to 34), thus, titles are displayed as text when recording units corresponding to the titles are played.

Concerning claims 7 and 22, *Tanaka et al.* discloses that control data may be real-time information, so audio control packs A-CONT correspond to real-time information packs RTI (column 57, line 58 to column 58, line 34: Figure 94); each ACBU or VCBU has a plurality of audio packs A ("each recording unit has a plurality of audio packs") (Figures 13, 19, 48, and 49); an audio control pack A-CONT is located in a first position in each ACBU (Figures 13, 19, 48, and 49).

Concerning claim 49, *Tanaka et al.* discloses the reproduced signal processor circuit 17 includes an audio and RTI pack detector 9, which receives the reproduced signal from the drive unit 2, and detects audio packs A and real-time information packs RTI in the reproduced signal (column 57, line 58 to column 58, line 34: Figure 94); thus, RTI packs (or audio control packs A-CONT) are separated from audio packs A for processing.

Claims 8, 23, 30 to 33, and 51 are rejected under 35 U.S.C. 103(a) as being unpatentable over *Tanaka et al.* in view of *Miller et al.* ('685) as applied to claims 1 and 16 above, and further in view of *Ema et al.*

Concerning independent claims 30 and 51, *Tanaka et al.* discloses a reproducing apparatus with an audio signal processor and an RTI signal processor (Figure 94), but

does not expressly show all the structural details for a reproducing apparatus.

However, *Ema et al.* discloses a reproducing apparatus further comprising:

“a reproducing controller reading an audio object (AOBU) which is one of the recording units” – system controller 100 provides control signals for controlling an audio reproducing process (column 9, lines 22 to 45: Figure 4);

“a demultiplexor demultiplexing an audio pack in which audio data is recorded and an RTI pack in which additional data is recorded, from the read AOBUs” – demultiplexer 86 extracts audio packs 230 and RTI packs 231; RTI packs 231 contain RTI data (including text information, tempo information 53 and beat information 54) (column 9, lines 22 to 46: Figures 1 and 4);

“an audio signal processor decoding the audio pack demultiplexed by the demultiplexor to output the audio data stored in the audio pack” – audio decoder 93 decodes audio information from audio packs 230 (column 9, lines 22 to 46: Figures 1 and 4);

“an RTI signal processor decoding the RTI pack demultiplexed by the demultiplexor to output additional data stored in the RTI pack in relation to the audio data from the audio pack” – RTI decoder 96 decodes RTI data output from demultiplexer 86 to provide beat information (column 9, lines 22 to 46: Figures 1 and 4).

Concerning independent claims 30 and 51, one skilled in the art would know that still picture, video detector pack 3A and audio, RTI pack detector 9 are equivalent to a demultiplexor, and control unit 23 is equivalent to a reproducing controller in *Tanaka et al.* (Figure 94) However, *Ema et al.* teaches a related apparatus and method of

reproducing music together with information representing beat of music, where a reproducing apparatus enables generation of a signal representing tempo of music.

(Column 5, Lines 3 to 8) It would have been obvious to one having ordinary skill in the art to include the elements of an audio reproducing processor as taught by *Ema et al.* in the signal processing apparatus of *Tanaka et al.* for a purpose of reproducing beat information for music.

Concerning claims 8, 23, and 33, *Tanaka et al.* discloses that an audio control pack A-CONT, corresponding to a real-time information (RTI) pack is in a first location with respect to an ACBU, but in a third position with respect to a VCBU. (Figures 13 and 48) Thus, embodiments are disclosed where an A-CONT pack or an RTI pack is offset by two units from a cell head. It is a matter of design choice exactly where an A-CONT pack or RTI pack is located in a cell N. *Tanaka et al.* suggests an A-CONT pack may be located at a first or third position for each cell, but does not expressly disclose placing an A-CONT pack in a second position. However, variable offset would be an obvious expedient of design choice, in the absence of unexpected results. The most logical place to put a control pack would be in a first position, but as *Tanaka et al.* also suggests putting a control pack in a third position, it would be an obvious expedient to place a control pack in a second position, as a matter of design choice, in the absence of unexpected results.

Concerning claim 31, *Tanaka et al.* discloses each audio control pack A-CONT stores managing information representing a title and a play time (column 20, lines 10 to 19); audio search data (ASD) has playback time of a related track and an absolute time

of the related title (column 19, lines 11 to 35: Figure 18); real-time information is read from real-time information packs RTI to display audio character display information (column 58, lines 21 to 34), thus, titles are displayed as text when recording units corresponding to the titles are played.

Concerning claim 32, *Tanaka et al.* discloses that control data may be real-time information, so audio control packs A-CONT correspond to real-time information packs RTI (column 57, line 58 to column 58, line 34: Figure 94); each ACBU or VCBU has a plurality of audio packs A (Figures 13, 19, 48, and 49); an audio control pack A-CONT is located in a first position in each ACBU (Figures 13, 19, 48, and 49).

Response to Arguments

Applicants' arguments filed 23 April 2007 have been considered but are moot in view of the new grounds of rejection, necessitated by amendment.

Conclusion

Applicants' amendment necessitated the new ground of rejection presented in this Office Action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicants are reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

The prior art made of record and not relied upon is considered pertinent to Applicants' disclosure.

Matsuzawa et al. ('723), Matsuzawa et al. ('004), and Gupta et al. disclose related art.

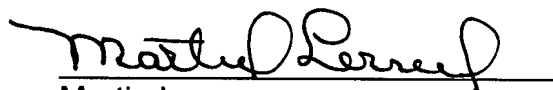
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Martin Lerner whose telephone number is (571) 272-7608. The examiner can normally be reached on 8:30 AM to 6:00 PM Monday to Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David R. Hudspeth can be reached on (571) 272-7843. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2626

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ML
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A handwritten signature in black ink, appearing to read "Martin Lerner", written over a horizontal line.

Martin Lerner
Examiner
Group Art Unit 2626